

ABSTRACT

An optical transmission system including a pulse train
5 generating means converting each data signal to a pulse train,
respectively, based on at least one encoding pattern that is
uniquely predetermined to correspond to the data signals, and
outputting the pulse train(s). Further, the system including an
optical modulating means converting the pulse train(s) output from
10 the pulse train generating means to an optically modulated signal
and outputting the signal, and including an optical transmission
path for transmitting the optically modulated signal that is output
from the optical modulating means. The system also including an
optical detecting means converting the optically modulated signal
15 transmitted on the optical transmission path to an electrical
signal and outputting the signal, and including data signal
extracting means for obtaining the pulse train from the electrical
signal and extracting the data signal(s).